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material layer to be inscribed and a backing layer impermeable to ingredients or water vapor, and using a movably guided laser beam emission device, said process comprising:

placing the adhesive in a support position;

guiding the laser emission device to emit the laser beam onto the device by a program of a manually operable central control unit; and

controlling the intensity and penetration depth of the laser beam according to the material properties of the system in such a way that the laser beam does not penetrate far enough to reach one of the at least one ingredient-containing layer and preventing a detrimental influence on the ingredients contained in the system.

14. (New) The process according to claim 13 wherein the sheet-like adhesive system -is an active agent-containing therapeutic system.

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15. (New) The process according to claim 14 wherein the active-agent containing therapeutic system is in the form of a plaster.

16. (New) The process according to claim 13 wherein said detrimental influence is heat generated by said guided laser beam.

17. (New) The process according to claim 13 wherein said detrimental influence is a perforation of said backing layer.

18. (New) The process according to claim 13 and further including covering the layer to be inscribed with an overlying layer having information in the form of characters or signs thereon, said overlying layer being a color layer which disintegrates at a moderate laser irradiation level, applying the moderate laser irradiation level to disintegrate the color level and inscribing the laser-exposed information in the form of characters or signs onto the underlying layer to be inscribed.

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25. (New) A process according to claim 13 wherein the process further includes a method to produce single-colored or multi-colored pattern of characters or signs comprising applying at least two overlying pigmented layers to the layer to be inscribed, and further including disintegrating the at least two pigmented layers by

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accurate control of the penetration depth of the laser beam to visualize the at least two underlying pigmented color layers.

26. (New) A device for the inscription of a sheet-like adhesive system comprising a laser appliance cooperating with a means for the control of the laser beam as to its direction and irradiation intensity as determined by a manually operable control unit which is provided with a data memory and a data processor, characterized in that the control unit has superimposed thereon a keyboard with a converter for immediate digital input of characters or other signs or corresponding data records.

27. (New) A device according to claim 26 and further including transferring the data generated by other production steps alternately or simultaneously to a program of the control unit for control.

28. (New) A device for inscription of a sheet-like adhesive system comprising a laser appliance cooperating with a means for the control of a laser beam as to its direction and irradiation intensity as determined by a control unit which is provided with a data memory and a data processor, characterized in that the data generated by other production steps are transferred to control a program of the control unit.--

REMARKS

The English translation of the specification submitted herewith is an accurate translation of the original specification.

The pending claims in PCT/EP00/03152 have been canceled and replaced with a new set of claims set to conform to U.S. practice for entry into National Phase. No